### (19) World Intellectual Property Organization International Bureau



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#### (43) International Publication Date 22 July 2004 (22.07.2004)

PCT

### (10) International Publication Number WO 2004/060804 A1

(51) International Patent Classification7: C09C 1/40, 1/68, 3/00, 3/04

C01F 7/02,

(21) International Application Number:

PCT/AU2004/000005

(22) International Filing Date: 6 January 2004 (06.01.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 2003900030

7 January 2003 (07.01.2003) AU

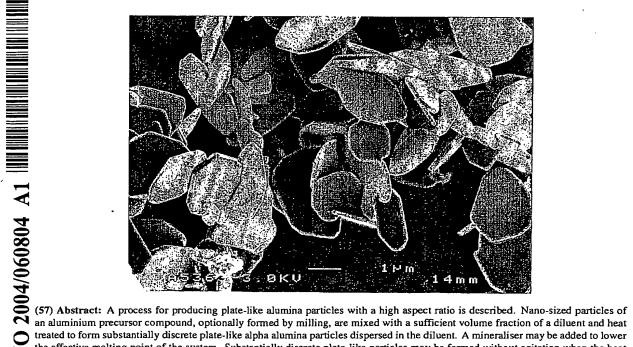
- (71) Applicant (for all designated States except US): AD-VANCED NANO TECHNOLOGIES PTY LTD [AU/AU]; 112 Radium Street, Welshpool, Western Australia 6106 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): ROBINSON, John, Sydney [/]. CUKROV, Lara, Michelle [/]. TSUZUKI,

Takuya [/]. LEE, David, Andrew [/]. MCCORMICK, Paul, Gerard [/].

- (74) Agent: PORT, Marguerite, Rosanne; C/- Griffith Hack, Level 6, 256 Adelaide Terrace, Perth, Western Australia 6000 (AU).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,

[Continued on next page]

(54) Title: PROCESS FOR THE PRODUCTION OF ULTRAFINE PLATE-LIKE ALUMINA PARTICLES



treated to form substantially discrete plate-like alpha alumina particles dispersed in the diluent. A mineraliser may be added to lower the effective melting point of the system. Substantially discrete plate-like particles may be formed without agitation when the heat treatment is conducted below the melting point of the diluent.

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TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000005

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A.	CLASSIFICATION OF SUBJECT N	1ATTE	CR ·			
Int. Cl. 7;	C01F 7/02; C09C 1/40, 1/68, 3/00,	3/04				
According to	International Patent Classification (IPC)	or to b	oth national classification and IPC			
В.	FIELDS SEARCHED		·			
Minimum docu	mentation searched (classification system fo	llowed t	oy classification symbols)			
Documentation	searched other than minimum documentation	n to the	extent that such documents are included in the fields search	hed		
Electronic data WPAT:IPC	base consulted during the international searc C01F 7/-, C09C 1/-, 3/-; Keywords A	h (name	e of data base and, where practicable, search terms used) INA, PLATE, HEAT, HEXAGONAL and simil:	ar words		
c.	DOCUMENTS CONSIDERED TO BE R	ELEVA	NT			
Category*	appropriate, of the relevant passages	Relevant to claim No.				
х	US 6015456A (Fukuda et al) 18 Ja See Examples 1-4	nuary	2000	1-5,8,13,14, 16-25		
·x	Patent Abstracts of Japan, JP 2001 Abstract and Figure 1	1-7,13,16-23				
x	US 5296085A (Faure et al) 22 March 1994 See Table 1 Example 1 and Column 2 lines 3-15					
X Ft	orther documents are listed in the con	ntinuat	ion of Box C X See patent family anne	x .		
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier application or patent but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use,			It later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family			
Date of the actua	later than the priority date claimed		Date of mailing of the international search report	) EED 2001		
3 February 20				FEB 2004		
AUSTRALIAN PO BOX 200, W	ng address of the ISA/AU PATENT OFFICE ODEN ACT 2606, AUSTRALIA oct@ipaustralia.gov.au 02) 6285 3929		Authorized officer GAYE HOROBIN Telephone No: (02) 6283 2069			

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/000005

C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	US 5702519A (Nitta et al) 30 December 1997	
<b>X</b>	See Examples and Comparative Examples	1-8,13-14, 16-20,22-25
	US 5587010A (Shibasaki et al) 24 December 1996	]
х	See Examples 1-4	1-4,8,13,14, 16-23,25
-	US 5759213A (Adair et al) 2 June 1998	1
X	See Column 3 line 42 to Column 4 line 60, Figures 3, 11, 12	1-5,13,15-25
v	EP 0679611 B1 (SUMITOMO CHEMICAL COMPANY LIMITED) 28 July 1999	
Х	See Examples and Figures 1-3	23-25
	US 5277702A (Thibault et al) 11 January 1994	
x	See Figures 2-4 and column 1 lines 30-35; Column 2 lines 57-61	23-25
	WO 1990/015777 A1 (ALUMINUM COMPANY OF AMERICA) 27 December 1990	
Х	See Examples 7-8 and Figure 7	1,8-10,13-14, 16-18,21,22, 25
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## INTERNATIONAL SEARCH REPORT

international application No. PCT/AU2004/000005

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report		Patent Family Member							
US	6015456	EP	0761600	JР	9059018	л	9142836		
		US	6197277	•					
ЛР	2001058818								
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